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U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 0933-0241PUS1 U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>107530347</b>
INTERNATIONAL APPLICATION NO. PCT/FI2003/000740 ✓	INTERNATIONAL FILING DATE 7 October 2003 ✓	PRIORITY DATE CLAIMED 7 October 2002 ✓
TITLE OF INVENTION     DETECTING THE RISK OF CARDIOVASCULAR DISEASE BY DETECTING MUTATIONS IN GENES, INCLUDING GENES ENCODING A2B-ADRENOCEPTOR AND APOLIPOPROTEIN B		
APPLICANT(S) FOR DO/EO/US     Jukka T. SALONEN; Tomi-Pekka TUOMAINEN; and Mia PIRSKANEN		

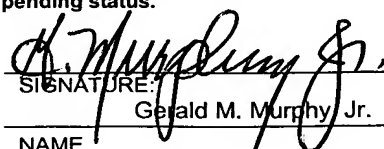
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - ✓ a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

- ✓ 11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ✓ 13. ☒ A preliminary amendment.
- ✓ 14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: PCT/ISA/210; Sequence Listing consisting of 13 sheets

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U.S. APPLICATION NO. (if known, see 37 CFR 1.53) <b>10/530347</b>		INTERNATIONAL APPLICATION NO. PCT/FI2003/000740		ATTORNEY'S DOCKET NUMBER 0933-0241PUS1		
The following fees have been submitted				CALCULATIONS	PTO USE ONLY	
21.	<input checked="" type="checkbox"/>	Basic national fee .....	\$300	\$ 300.00		
22.	<input checked="" type="checkbox"/>	Examination fee				
If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....				\$100		
All other situations .....				\$200		
23.	<input checked="" type="checkbox"/>	Search fee				
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....				\$100		
International Search Report prepared and provided to the Office .....				\$400		
All other situations .....				\$500		
<b>TOTAL OF 21, 22 and 23 =</b>				<b>\$ 1,000.00</b>		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE			
38 - 100 =	/50 =		x \$250.00			
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).				\$ 130.00		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			
Total claims	23 - 20 =	3	x 150.00	\$ 150.00		
Independent claims	2 - 3 =	0	x 0.0	\$ 0.00		
MULTIPLE DEPENDENT CLAIM(s) (if applicable)			+ 0.00	\$ 0.00		
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$ 1,280.00</b>		
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$ 640.00		
<b>SUBTOTAL =</b>				<b>\$ 640.00</b>		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).				+		
<b>TOTAL NATIONAL FEE =</b>				<b>\$ 640.00</b>		
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+		
<b>TOTAL FEES ENCLOSED =</b>				<b>\$ 640.00</b>		
				Amount to be refunded:	\$	
				Amount to be charged:	\$	
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>640.00</u> to cover the above fees is enclosed.						
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.						
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>02-2448</u> . A duplicate copy of this sheet is enclosed.						
d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
<b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</b>						
SEND ALL CORRESPONDENCE TO:						
				 SIGNATURE:		
				Gerald M. Murphy Jr.		
				NAME		
CUSTOMER NUMBER: 02292						
April 6, 2005						
GMM/nl						
				28,977		
				REGISTRATION NUMBER		